



5129 N. Shirley St. Suite 100 | Ruston, WA 98407

August 14, 2009

Mr. Kevin L. Rochlin  
Remedial Project Manager  
U.S. Environmental Protection Agency  
Region 10  
1200 Sixth Avenue, ECL-111  
Seattle, WA 98101

RE: Monthly Report: No. 158, July 2009  
Operable Unit No. 02 - Asarco Tacoma Smelter Site

Dear Mr. Rochlin:

Point Ruston is submitting this monthly report per the requirements of paragraph 48 of the Consent Decree for the above referenced site. Point Ruston will continue to provide monthly reports to EPA for the site organized in the same manner as previous reports prepared by Asarco to follow item (a) through (g) of this paragraph.

If you have any questions, please call me.

Sincerely,

Eric Pilcher, P.E.  
Project Coordinator

Attachment (2 copies)

cc: Chung Ki Yee - Washington Department of Ecology  
Evan Griffiths - CH2MHill (2 copies)  
Leslie Ann Rose - Citizens for a Healthy Bay  
Karen Pickett - ASARCO

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*A. Actions taken to achieve compliance with the Consent Decree during the previous month.*

1. Held a conference call with EPA on July 24<sup>th</sup>.
2. Continued weekly site- maintenance logs (see attached).
3. Nuprecon removed import materials from the site.
4. Maintained clean work area and road
5. Remedial Action activities continued
6. Training activities include the following:
  - Site specific Safety Orientation was held on July 8<sup>th</sup> for 2 NW Linings employees.
  - Site specific Safety Orientation was held on July 9<sup>th</sup> for 1 Cross Connection Specialists employee.
  - Site specific Safety Orientation was held on July 17<sup>th</sup> for 1 Clyde West Services employee.
  - Site specific Safety Orientations were held on July 21<sup>st</sup> for 4 Nuprecon employees, 2 PGH Enterprises drivers, 1 City of Tacoma Water Dept. employee.
  - Site specific Safety Orientation was held on July 22<sup>nd</sup> for 1 PGH Enterprises drivers.
  - Site specific Safety Orientations were held on July 23<sup>rd</sup> for 1 Nuprecon employee, 1 Associated Petroleum Products employee, 1 PGH Enterprises driver, 1 GeoResources, Inc. employee, and 1 Naval Facilities technician.
  - Site specific Safety Orientations were held on July 24<sup>th</sup> for 1 Star Rentals employee, 1 Mountain Mist driver, and 1 Lloyd Enterprises employee.
  - Site specific Safety Orientation was held on July 30<sup>th</sup> for 1 NC Machinery employee.

*B. Summary of sampling, tests, and all other data received or generated by Point Ruston in the previous month.*

1. Outfall activities including the following:

Section 2.3 of the Final Statement of Work (SOW) for Remedial Design and Remedial Action – Exhibit F to the Second Amendment requires Point Ruston to continue outfall monitoring. Outfalls will be monitored to determine if the monthly average surface water outfall concentrations for arsenic, copper, and zinc exceed 0.5 ppm at the North and South site outfalls until they are abandoned.

Weekly composite samples will be collected at each outfall during the construction season. During the winter season, outfall samples will be



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collected every other month. Asarco began the following schedule in May of 2003 which Point Ruston will continue to implement: weekly composite samples will be collected from May-October, and in December, February, and April.

Samples were collected by Point Ruston on June 8<sup>th</sup>, 15<sup>th</sup>, 22<sup>nd</sup>, 29<sup>th</sup>, July 6<sup>th</sup>, 13<sup>th</sup>, 20<sup>th</sup>, 27<sup>th</sup>, and August 3<sup>rd</sup>. Results from samples collected are attached. There were no exceedances.

2. Point Ruston collects OCF leachate in a 5,000 gallon polyethylene tank for offsite shipment and disposal. LCRS and LDCRS volumes are monitored weekly in accordance with the draft OCF OMMP. LCRS volumes currently average approximately 127 gallons per day on the LCRS (see attached correspondence and data). 4950 gallons of leachate were shipped on July 9<sup>th</sup>. Results from the sample collected on June 22<sup>nd</sup> indicated 5.2 ppm, as previously reported.
  3. Point Ruston performs perimeter air monitoring at three locations on the site: NW Corner of OCF, OCF Vault #1 (upper vault), South Gate. Air monitoring began on April 10<sup>th</sup>, 2008. Results for samples collected from July 6<sup>th</sup> through July 24<sup>th</sup> are attached. There was a result of 0.21 ppm from the monitor at the South Gate on July 16<sup>th</sup>. EPA was notified under a separate letter pursuant to the Point Ruston Health and Safety Plan. A copy of the letter is attached. Air monitoring results are also transmitted electronically to EPA for posting on the Region 10 website.
  4. Point Ruston performs personal air monitoring in accordance with WAC 296-848-20060(1) & WAC 296-155-17609(1)(a) to determine if the airborne concentrations of arsenic and lead exceed the PEL. Personal air monitoring was performed on July 29<sup>th</sup> during grading activities. Results for samples collected are attached. There were no exceedances.
- C. *Work Plans and other deliverables completed and submitted during the previous month.*
1. Plans and Documents included the following:
    - Point Ruston requested EPA clarification regarding the work associated with the Ruston Way realignment and underground utilities. On June 16<sup>th</sup> EPA responded, acknowledging that this project is exempted from local permitting requirements under CERCLA Section 121.
  2. Remedial Action included the following tasks:

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- OCF construction activities:
  - Maintained leachate collection system.
- Stack Hill construction activities:
  - Maintained erosion and surface water controls; specifically on Commercial Street cul-de-sac area
  - Continued home construction
  - Maintained site perimeter fence and signage at the north end of Stack Hill.
- Site-wide remediation/redevelopment activities:
  - Continued surface water controls
  - Maintained haul roads and stockpiles onsite
  - Maintained erosion and surface water controls
  - Began earthwork to remove haul road from the face of stack hill and perform pre-load for the proposed Ruston Way alignment over the paleochannel

*D. Actions scheduled for the next six weeks.*

1. Address any new or remaining comments on CMP – Master Infrastructure and Stack Hill Face
2. Submit the Upland OMMP
3. Submit Revision 5 of the Construction Health and Safety Plan together with an updated Spanish translation
4. Submit a Sequencing of Development and Occupancy and Temporary Cap Plan
5. Submit Point Ruston CC&Rs
6. Consolidate PA documents as relevant to current RA plan
7. Meet with Tacoma Metro Parks to discuss the RA for the slag peninsula
8. The following Remedial Action tasks are planned to continue:
  - RA Monitoring:**
    - Outfall sampling (weekly composite samples) during scheduled months
    - Air monitoring during remedial action activities
  - OCF OMMP activities:**
    - Continue collection of leachate for offsite disposal



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- Continue monitoring of leachate volumes

**Stack Hill construction activities:**

- Erosion controls and site maintenance
- Continue home construction
- Begin face cap installation

**Site-wide construction activities:**

- Continue surface water controls
- Maintain roads and stockpiles onsite
- Maintain erosion controls
- Construction activities for mass grading and Master Infrastructure
- Monitoring settling of Ruston Way alignment over the paleochannel
- Complete OCF Transformer & Vault relocation

*E. Percentage completion, unresolved delays encountered or anticipated that may affect schedule, and efforts to mitigate delays.*

1. Point Ruston is continuing to work with the City of Tacoma & Town of Ruston to secure permits associated with the Master Infrastructure CMP. Revised storm and sanitary sewer plans, and Project Specifications were submitted to Tacoma & Ruston during the month of July. Road design plans will be submitted pending Tacoma approval of horizontal alignment for roundabouts.
2. Point Ruston is coordinating with BNSF to secure grade, fill, access and utility easements upon property adjacent to Ruston Way. Point Ruston has gained approvals from Baumgardner LLC & Domestic Realty LLC, the two other fronting landowners.
3. Shoreline Substantial Development Permits (Tacoma and Ruston) and Conditional Use Permit (Ruston) have been approved in both municipalities.
  - a. A Request for Reconsideration was filed against the Tacoma shoreline permits. The shoreline permit was upheld, but was appealed to the Hearings Examiner on March 6<sup>th</sup>. The Tacoma hearing was held on July 8th, 9th, and 10th.
  - b. The Ruston shoreline permit was similarly appealed to the Shoreline Hearings Board (SHB). A hearing with the SHB was held on June 8th, 9th, and 10th. While the shoreline permit was upheld in a memorandum decision, the official decision may take through the end of August.

*F. Modifications to work plans or schedules proposed to or approved by EPA.*

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1. The Second Amendment to the Consent Decree was finalized and the sale of the property to Point Ruston LLC completed on October 31, 2006.
  2. Point Ruston and EPA have coordinated the issuance of an Explanation of Significant Differences (ESD) for the addition of the demolition project which will remove the 2,300 creosote piles encompassing the 3 docks along the frontage of the property. A pre-ESD letter approved this project as a clean-up action under CERCLA, and Point Ruston and the Dept. of Natural Resources continue to pursue funding with an anticipated August construction start date.
- G. *Activities undertaken to support Community Relations Plan during the previous month and planned for the next four weeks.*
1. Point Ruston attends the Town of Ruston's Town Council meetings routinely to answer question or give briefings regarding the status of RA and development planning activities (1<sup>st</sup> and 3<sup>rd</sup> Monday of each month).
  2. Point Ruston is working with the City of Tacoma on development plans which incorporate remediation components for the site.
  3. Point Ruston is working with MetroParks to incorporate the capping component into the Peninsula Park design, and is in talks to establish a Memorandum of Agreement to engage in design consultation for this site.
  4. Point Ruston will meet with the Town of Ruston, City of Tacoma and MetroParks to address operation, maintenance, and monitoring issues at the site.

Table 1. Summary of July 2009 Outfall Data for As, Cu, and Zn Compared to SOW Limit

Location	As Conc. ppm	% of SOW Limit*	Cu Conc. ppm	% of SOW Limit*	Zn Conc. ppm	% of SOW Limit*
South Outfall	0.045	9.08%	0.006	1.20%	0.002	0.40%
North Outfall	0.016	3.28%	0.004	0.80%	0.004	0.80%

\* 0.5 ppm is the limit of As, Cu, and Zn allowed as documented in the SOW.





ENERGY LABORATORIES, INC. \* 1120 S 27th St \* PO Box 30916 \* Billings, MT 59107-0916  
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### LABORATORY ANALYTICAL REPORT

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Monitoring  
**Lab ID:** B09080200-001  
**Client Sample ID:** North TSM0709406

**Report Date:** 08/11/09  
**Collection Date:** 07/06/09 09:27  
**Date Received:** 08/04/09  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.017	mg/L		0.005		E200.8	08/05/09 15:38 / aje
Copper	ND	mg/L		0.01		E200.8	08/05/09 15:38 / aje
Zinc	ND	mg/L		0.01		E200.8	08/05/09 15:38 / aje

**Report**  
**Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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### LABORATORY ANALYTICAL REPORT

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Monitoring  
**Lab ID:** B09080200-002  
**Client Sample ID:** South TSM0709106

**Report Date:** 08/11/09  
**Collection Date:** 07/06/09 08:46  
**Date Received:** 08/04/09  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.046	mg/L		0.005		E200.8	08/06/09 11:35 / jjw
Copper	0.02	mg/L		0.01		E200.8	08/06/09 11:35 / jjw
Zinc	0.01	mg/L		0.01		E200.8	08/06/09 11:35 / jjw

**Report**  
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### LABORATORY ANALYTICAL REPORT

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Monitoring  
**Lab ID:** B09080200-003  
**Client Sample ID:** North TSM0709413

**Report Date:** 08/11/09  
**Collection Date:** 07/13/09 08:40  
**Date Received:** 08/04/09  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.015	mg/L		0.005		E200.8	08/06/09 11:40 / jjw
Copper	ND	mg/L		0.01		E200.8	08/06/09 11:40 / jjw
Zinc	ND	mg/L		0.01		E200.8	08/06/09 11:40 / jjw

**Report**  
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### LABORATORY ANALYTICAL REPORT

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Monitoring  
**Lab ID:** B09080200-004  
**Client Sample ID:** South TSM0709113

**Report Date:** 08/11/09  
**Collection Date:** 07/13/09 09:03  
**Date Received:** 08/04/09  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.042	mg/L		0.005		E200.8	08/06/09 11:44 / jjw
Copper	ND	mg/L		0.01		E200.8	08/06/09 11:44 / jjw
Zinc	ND	mg/L		0.01		E200.8	08/06/09 11:44 / jjw

**Report**  
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### LABORATORY ANALYTICAL REPORT

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Monitoring  
**Lab ID:** B09080200-005  
**Client Sample ID:** North TSM0709420

**Report Date:** 08/11/09  
**Collection Date:** 07/20/09 08:53  
**Date Received:** 08/04/09  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.015	mg/L		0.005		E200.8	08/06/09 11:48 / jjw
Copper	ND	mg/L		0.01		E200.8	08/06/09 11:48 / jjw
Zinc	ND	mg/L		0.01		E200.8	08/06/09 11:48 / jjw

**Report**  
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### LABORATORY ANALYTICAL REPORT

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Monitoring  
**Lab ID:** B09080200-006  
**Client Sample ID:** South TSM0709120

**Report Date:** 08/11/09  
**Collection Date:** 07/20/09 08:31  
**Date Received:** 08/04/09  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.046	mg/L		0.005		E200.8	08/06/09 11:52 / jjw
Copper	ND	mg/L		0.01		E200.8	08/06/09 11:52 / jjw
Zinc	ND	mg/L		0.01		E200.8	08/06/09 11:52 / jjw

**Report**  
**Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.





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### LABORATORY ANALYTICAL REPORT

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Monitoring  
**Lab ID:** B09080200-007  
**Client Sample ID:** North TSM0709427

**Report Date:** 08/11/09  
**Collection Date:** 07/27/09 09:31  
**Date Received:** 08/04/09  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.016	mg/L		0.005		E200.8	08/06/09 12:12 / jjw
Copper	ND	mg/L		0.01		E200.8	08/06/09 12:12 / jjw
Zinc	ND	mg/L		0.01		E200.8	08/06/09 12:12 / jjw

**Report** RL - Analyte reporting limit.  
**Definitions:** QCL - Quality control limit.

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### LABORATORY ANALYTICAL REPORT

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Monitoring  
**Lab ID:** B09080200-008  
**Client Sample ID:** South TSM0709127

**Report Date:** 08/11/09  
**Collection Date:** 07/27/09 09:42  
**Date Received:** 08/04/09  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.047	mg/L		0.005		E200.8	08/06/09 12:16 / jjw
Copper	0.01	mg/L		0.01		E200.8	08/06/09 12:16 / jjw
Zinc	ND	mg/L		0.01		E200.8	08/06/09 12:16 / jjw

**Report**  
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MCL - Maximum contaminant level.  
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## LABORATORY ANALYTICAL REPORT

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Monitoring  
**Lab ID:** B09080200-009  
**Client Sample ID:** North TSM0809403

**Report Date:** 08/11/09  
**Collection Date:** 08/03/09 08:15  
**Date Received:** 08/04/09  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.019	mg/L		0.005		E200.8	08/06/09 04:45 / aje
Copper	0.02	mg/L		0.01		E200.8	08/06/09 04:45 / aje
Zinc	0.02	mg/L		0.01		E200.8	08/06/09 18:43 / jjw

**Report**  
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### LABORATORY ANALYTICAL REPORT

Client: Point Ruston LLC  
Project: Tacoma Smelter Outfall Monitoring  
Lab ID: B09080200-010  
Client Sample ID: South TSM0809103

Report Date: 08/11/09  
Collection Date: 08/03/09 08:57  
Date Received: 08/04/09  
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.046	mg/L		0.005		E200.8	08/06/09 12:32 / jjw
Copper	ND	mg/L		0.01		E200.8	08/06/09 12:32 / jjw
Zinc	ND	mg/L		0.01		E200.8	08/06/09 12:32 / jjw

Report Definitions: RL - Analyte reporting limit.  
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Table 1. Summary of June 2009 Outfall Data for As, Cu, and Zn Compared to SOW Limit

Location	As Conc. ppm	% of SOW Limit*	Cu Conc. ppm	% of SOW Limit*	Zn Conc. ppm	% of SOW Limit*
South Outfall	0.037	7.35%	0.008	1.50%	0.010	2.00%
North Outfall	0.020	4.00%	0.008	1.50%	0.008	1.50%

\* 0.5 ppm is the limit of As, Cu, and Zn allowed as documented in the SOW.



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## ANALYTICAL SUMMARY REPORT

July 14, 2009

Tim Rusher

Point Ruston LLC

5219 N Shirley St Ste 100

Tacoma, WA 98407

Workorder No.: B09070487

Project Name: Tacoma Smelter Outfall Monitoring

Energy Laboratories Inc received the following 8 samples for Point Ruston LLC on 7/7/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B09070487-001	NORTH, TSM0609408	06/08/09 9:27	07/07/09	Aqueous	Metals by ICP/ICPMS, Total Metals Preparation by EPA 200.2
B09070487-002	NORTH, TSM0609415	06/15/09 10:19	07/07/09	Aqueous	Same As Above
B09070487-003	NORTH, TSM0609422	06/22/09 8:32	07/07/09	Aqueous	Same As Above
B09070487-004	NORTH, TSM0609429	06/29/09 9:47	07/07/09	Aqueous	Same As Above
B09070487-005	SOUTH, TSM0609108	06/08/09 9:58	07/07/09	Aqueous	Same As Above
B09070487-006	SOUTH, TSM0609115	06/15/09 11:08	07/07/09	Aqueous	Same As Above
B09070487-007	SOUTH, TSM0609122	06/22/09 9:15	07/07/09	Aqueous	Same As Above
B09070487-008	SOUTH, TSM0609129	06/29/09 10:33	07/07/09	Aqueous	Same As Above

Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

JUNE 2009

OUT FALL



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## LABORATORY ANALYTICAL REPORT

Client: Point Ruston LLC  
Project: Tacoma Smelter Outfall Monitoring  
Lab ID: B09070487-001  
Client Sample ID: NORTH, TSM0609408

Report Date: 07/14/09  
Collection Date: 06/08/09 09:27  
Date Received: 07/07/09  
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.019	mg/L		0.005		E200.8	07/09/09 20:00 / jjw
Copper	ND	mg/L		0.01		E200.8	07/09/09 20:00 / jjw
Zinc	ND	mg/L		0.01		E200.8	07/09/09 20:00 / jjw

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## LABORATORY ANALYTICAL REPORT

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Monitoring  
**Lab ID:** B09070487-002  
**Client Sample ID:** NORTH, TSM0609415

**Report Date:** 07/14/09  
**Collection Date:** 06/15/09 10:19  
**Date Received:** 07/07/09  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.024	mg/L		0.005		E200.8	07/10/09 23:19 / aje
Copper	0.02	mg/L		0.01		E200.8	07/10/09 23:19 / aje
Zinc	0.03	mg/L		0.01		E200.7	07/10/09 12:57 / tao

**Report Definitions:** RL - Analyte reporting limit.  
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ND - Not detected at the reporting limit.



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800-735-4489 • 406-252-6325 • 406-252-6069 fax • eli@energylab.com

## LABORATORY ANALYTICAL REPORT

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Monitoring  
**Lab ID:** B09070487-003  
**Client Sample ID:** NORTH, TSM0609422

**Report Date:** 07/14/09  
**Collection Date:** 06/22/09 08:32  
**Date Received:** 07/07/09  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.020	mg/L		0.005		E200.8	07/09/09 20:07 / jjw
Copper	0.01	mg/L		0.01		E200.8	07/09/09 20:07 / jjw
Zinc	ND	mg/L		0.01		E200.8	07/09/09 20:07 / jjw

**Report** RL - Analyte reporting limit.  
**Definitions:** QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## LABORATORY ANALYTICAL REPORT

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Monitoring  
**Lab ID:** B09070487-004  
**Client Sample ID:** NORTH, TSM0609429

**Report Date:** 07/14/09  
**Collection Date:** 06/29/09 09:47  
**Date Received:** 07/07/09  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.017	mg/L		0.005		E200.8	07/09/09 20:14 / jjw
Copper	ND	mg/L		0.01		E200.8	07/09/09 20:14 / jjw
Zinc	ND	mg/L		0.01		E200.8	07/09/09 20:14 / jjw

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## LABORATORY ANALYTICAL REPORT

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Monitoring  
**Lab ID:** B09070487-005  
**Client Sample ID:** SOUTH, TSM0609108

**Report Date:** 07/14/09  
**Collection Date:** 06/08/09 09:58  
**Date Received:** 07/07/09  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.042	mg/L		0.005		E200.8	07/09/09 07:16 / dck
Copper	0.02	mg/L		0.01		E200.8	07/09/09 07:16 / dck
Zinc	0.01	mg/L		0.01		E200.8	07/09/09 07:16 / dck

**Report**  
**Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## LABORATORY ANALYTICAL REPORT

Client: Point Ruston LLC  
Project: Tacoma Smelter Outfall Monitoring  
Lab ID: B09070487-006  
Client Sample ID: SOUTH, TSM0609115

Report Date: 07/14/09  
Collection Date: 06/15/09 11:08  
Date Received: 07/07/09  
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.033	mg/L		0.005		E200.8	07/09/09 07:50 / dck
Copper	ND	mg/L		0.01		E200.8	07/09/09 07:50 / dck
Zinc	0.01	mg/L		0.01		E200.8	07/09/09 07:50 / dck

Report Definitions: RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.





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## LABORATORY ANALYTICAL REPORT

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Monitoring  
**Lab ID:** B09070487-007  
**Client Sample ID:** SOUTH, TSM0609122

**Report Date:** 07/14/09  
**Collection Date:** 06/22/09 09:15  
**Date Received:** 07/07/09  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.038	mg/L		0.005		E200.8	07/09/09 07:57 / dck
Copper	0.01	mg/L		0.01		E200.8	07/10/09 00:05 / aje
Zinc	0.01	mg/L		0.01		E200.8	07/09/09 07:57 / dck

**Report**  
**Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## LABORATORY ANALYTICAL REPORT

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Monitoring  
**Lab ID:** B09070487-008  
**Client Sample ID:** SOUTH, TSM0609129

**Report Date:** 07/14/09  
**Collection Date:** 06/29/09 10:33  
**Date Received:** 07/07/09  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.034	mg/L		0.005		E200.8	07/09/09 08:04 / dck
Copper	ND	mg/L		0.01		E200.8	07/09/09 08:04 / dck
Zinc	0.01	mg/L		0.01		E200.8	07/09/09 08:04 / dck

**Report**  
**Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## QA/QC Summary Report

Client: Point Ruston LLC

Project: Tacoma Smelter Outfall Monitoring

Report Date: 07/14/09

Work Order: B09070487

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: 39983
Sample ID: MB-39983	Method Blank					Run: ICP202-B_090710A			07/10/09 12:46
Zinc	ND	mg/L	0.004						
Sample ID: LCS5-39983	Laboratory Control Sample					Run: ICP202-B_090710A			07/10/09 12:50
Zinc	0.524	mg/L	0.010	105	85	115			
Sample ID: B09070487-002AMS5	Sample Matrix Spike					Run: ICP202-B_090710A			07/10/09 13:00
Zinc	0.554	mg/L	0.010	104	70	130			
Sample ID: B09070487-002AMSD5	Sample Matrix Spike Duplicate					Run: ICP202-B_090710A			07/10/09 13:04
Zinc	0.558	mg/L	0.010	105	70	130	0.7	20	
Method: E200.7									Analytical Run: ICP202-B_090710A
Sample ID: ICV	Continuing Calibration Verification Standard								07/10/09 11:53
Zinc	2.58	mg/L	0.010	103	95	105			

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



## QA/QC Summary Report

Client: Point Ruston LLC  
Project: Tacoma Smelter Outfall Monitoring

Report Date: 07/14/09  
Work Order: B09070487

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: 39983
Sample ID: MB-39983	Method Blank						Run: ICPMS202-B_090710A		07/10/09 22:39
Arsenic	ND	mg/L	0.0002						
Copper	ND	mg/L	0.0001						
Zinc	0.001	mg/L	0.0005						
Sample ID: LCS5-39983	Laboratory Control Sample						Run: ICPMS202-B_090710A		07/10/09 22:43
Arsenic	0.488	mg/L	0.0050	98	85	115			
Copper	0.432	mg/L	0.010	86	85	115			
Zinc	0.460	mg/L	0.010	92	85	115			
Sample ID: B09070487-002AMS5	Sample Matrix Spike						Run: ICPMS202-B_090710A		07/10/09 23:23
Arsenic	0.496	mg/L	0.0050	94	70	130			
Copper	0.436	mg/L	0.010	83	70	130			
Zinc	0.462	mg/L	0.010	86	70	130			
Sample ID: B09070487-002AMSD5	Sample Matrix Spike Duplicate						Run: ICPMS202-B_090710A		07/10/09 23:26
Arsenic	0.496	mg/L	0.0050	94	70	130	0.1	20	
Copper	0.435	mg/L	0.010	83	70	130	0.3	20	
Zinc	0.464	mg/L	0.010	86	70	130	0.3	20	
Sample ID: MB-39983	Method Blank						Run: ICPMS204-B_090709A		07/09/09 14:32
Arsenic	ND	mg/L	9E-05						
Copper	ND	mg/L	0.0002						
Zinc	ND	mg/L	0.001						
Sample ID: LCS5-39983	Laboratory Control Sample						Run: ICPMS204-B_090709A		07/09/09 14:39
Arsenic	0.479	mg/L	0.0050	96	85	115			
Copper	0.479	mg/L	0.010	96	85	115			
Zinc	0.479	mg/L	0.010	96	85	115			
Sample ID: B09070487-002AMS5	Sample Matrix Spike						Run: ICPMS204-B_090709A		07/09/09 15:40
Arsenic	0.509	mg/L	0.0050	97	70	130			
Copper	0.494	mg/L	0.010	95	70	130			
Zinc	0.508	mg/L	0.010	95	70	130			
Sample ID: B09070487-002AMSD5	Sample Matrix Spike Duplicate						Run: ICPMS204-B_090709A		07/09/09 15:47
Arsenic	0.512	mg/L	0.0050	98	70	130	0.5	20	
Copper	0.496	mg/L	0.010	95	70	130	0.5	20	
Zinc	0.510	mg/L	0.010	95	70	130	0.4	20	

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.





## QA/QC Summary Report

Client: Point Ruston LLC  
Project: Tacoma Smelter Outfall Monitoring

Report Date: 07/14/09  
Work Order: B09070487

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8			Analytical Run: ICPMS203-B_090708B						
Sample ID: QCS-090602A,090401E,0			Initial Calibration Verification Standard						07/08/09 23:28
Arsenic	0.0491	mg/L	0.0050	98	90	110			
Copper	0.0495	mg/L	0.010	99	90	110			
Zinc	0.0503	mg/L	0.010	101	90	110			
Method: E200.8			Batch: R132475						
Sample ID: LRB			Method Blank		Run: ICPMS203-B_090708B		07/09/09 00:23		
Arsenic	3E-05	mg/L	2E-05						
Copper	9E-05	mg/L	3E-05						
Zinc	0.001	mg/L	0.0001						
Sample ID: LFB			Laboratory Fortified Blank		Run: ICPMS203-B_090708B		07/09/09 00:30		
Arsenic	0.0487	mg/L	0.0050	97	85	115			
Copper	0.0487	mg/L	0.010	97	85	115			
Zinc	0.0493	mg/L	0.010	96	85	115			
Sample ID: B09070015-002AMS			Sample Matrix Spike		Run: ICPMS203-B_090708B		07/09/09 03:42		
Arsenic	0.0511	mg/L	0.0050	102	70	130			
Copper	0.0501	mg/L	0.010	99	70	130			
Zinc	0.0519	mg/L	0.010	101	70	130			
Sample ID: B09070015-002AMSD			Sample Matrix Spike Duplicate		Run: ICPMS203-B_090708B		07/09/09 03:49		
Arsenic	0.0504	mg/L	0.0050	101	70	130	1.3	20	
Copper	0.0492	mg/L	0.010	97	70	130	1.8	20	
Zinc	0.0511	mg/L	0.010	100	70	130	1.7	20	
Method: E200.8			Analytical Run: ICPMS203-B_090709A						
Sample ID: QCS-090602A,090609B,0			Initial Calibration Verification Standard						07/09/09 18:08
Copper	0.0498	mg/L	0.010	100	90	110			
Method: E200.8			Batch: R132505						
Sample ID: LRB			Method Blank		Run: ICPMS203-B_090709A		07/09/09 12:50		
Copper	0.0002	mg/L	3E-05						
Sample ID: LFB			Laboratory Fortified Blank		Run: ICPMS203-B_090709A		07/09/09 12:57		
Copper	0.0518	mg/L	0.010	103	85	115			
Sample ID: B09062821-001BMS			Sample Matrix Spike		Run: ICPMS203-B_090709A		07/09/09 20:32		
Copper	0.0533	mg/L	0.010	97	70	130			
Sample ID: B09062821-001BMDS			Sample Matrix Spike Duplicate		Run: ICPMS203-B_090709A		07/09/09 20:39		
Copper	0.0531	mg/L	0.010	96	70	130	0.5	20	

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.





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## QA/QC Summary Report

Client: Point Ruston LLC

Report Date: 07/14/09

Project: Tacoma Smelter Outfall Monitoring

Work Order: B09070487

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Analytical Run: ICPMS204-B_090709A		
Sample ID: QCS-090602A,090609B,0 Initial Calibration Verification Standard							07/09/09 11:33		
Arsenic	0.0492	mg/L	0.0050	98	90	110			
Copper	0.0504	mg/L	0.010	101	90	110			
Zinc	0.0519	mg/L	0.010	104	90	110			
Method: E200.8							Analytical Run: ICPMS202-B_090710A		
Sample ID: QCS - 090602A,090401E, Initial Calibration Verification Standard							07/10/09 11:36		
Arsenic	0.0497	mg/L	0.0050	99	90	110			
Copper	0.0476	mg/L	0.010	95	90	110			
Zinc	0.0502	mg/L	0.010	100	90	110			

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



## Energy Laboratories Inc Workorder Receipt Checklist



B09070487

Point Ruston LLC

Login completed by: Darwin C. Miller

Date and Time Received: 7/7/2009 10:30 AM

Reviewed by: Denise Ruby

Received by: Ig

Reviewed Date: 7/8/2009 8:10:00 AM

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature:	12°C		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>

Contact and Corrective Action Comments:

None

## CHAIN OF CUSTODY RECORD

POINT  
RUSTON5219 N. Shirley St., Suite 100 Tacoma, WA 98407  
Phone: 253-752-2185 Fax: 253-752-7083

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS		REMARKS	
TACOMA SMELTER		GUT FILL MONITORING		1			
SAMPLERS: (Signature)				1			
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER		
7/8/09	NORTH	9:27	✓		TSM06009408	1	✓
7/16/09	NORTH	10:19	✓		TSM06009415	1	✓
7/20/09	NORTH	8:32	✓		TSM06009422	1	✓
7/21/09	NORTH	9:47	✓		TSM06009429	1	✓
7/8/09	SOUTH	9:58	✓		TSM06009108	1	✓
7/16/09	SOUTH	11:08	✓		TSM06009105	1	✓
7/20/09	SOUTH	9:15	✓		TSM06009122	1	✓
7/21/09	SOUTH	10:33	✓		TSM06009129	1	✓
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab	
[Signature]		7/6/09 FedEx		[Signature]		Shipped via: <u>FedEx, NPS</u> or Other Air Bill #	
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks	
[Signature]				[Signature]			
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Enclosed:	
[Signature]				[Signature]		<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter	
				Date/Time		Split Samples:	
				7-7-09 10:30		<input type="checkbox"/> Accepted <input type="checkbox"/> Declined	
				12° Seals on bottles Fed Ex Express		Signature	





July 31, 2009

Mr. Kevin L. Rochlin  
Remedial Project Manager  
U.S. Environmental Protection Agency, Region 10  
1200 Sixth Avenue, ECL-111  
Seattle, WA 98101

RE: **Notification of Exceedance**  
**OU 02, Former Asarco/Tacoma Smelter Site**

Dear Mr. Rochlin:

Please be advised that our Hi-Vol air monitor sampler near the South Gate recorded an Arsenic concentration level of  $0.210 \mu\text{g}/\text{m}^3$  during its operation from July 16, 09:30am through July 17, 09:16am. The report was received via mail on July 28<sup>th</sup>.

The following observations were noted during this time period:

Thursday July 16, 2009; Sample Times (09:30 am – midnight)

**Weather:**

Low 56 degrees / High 85 degrees; NNE winds 0.8 mph with gusts to 10 mph; no measurable precipitation.

**On-site activity:**

No significant on-site activity was conducted in the vicinity of the S. Gate.  
No subcontractors were working on building construction during this time.  
Routine delivery / meeting trips were made by Cintas, NC Machinery and Gafcon.  
The site work crew was working at the North end of the site, preparing pipe for the new water storage tank.

**Off-site activity:**

Tacoma Public Utilities conducted utility work on Ruston Way between the S. Gate and 49th Street to install a new water service lateral and fire hydrant. The utility work resulted in an increased amount of truck and equipment traffic in the gravel/dirt area just outside the S. Gate. Equipment was delivered and unloaded in the gravel area and utility workers used the gravel area as a turnaround throughout the day. Dust control was not implemented by the utility crew. The gravel & dirt areas on both sides of Ruston Way

are not remediated and are known to contain elevated levels of arsenic. Visible dust was seen frequently being generated by the utility vehicles during this time.

Friday July 17, 2009; Sample Times (midnight – 09:16 am)

Weather:

Low 60 degrees / High 91 degrees; S winds 0.7 mph with gusts to 10 mph; no measurable precipitation.

On-site activity:

No significant on-site activity was conducted in the vicinity of the S. Gate.  
No subcontractors were working on building construction during this time.

Off-site activity:

Point Ruston workers trenched and installed a water service lateral from the new meter location placed by the Tacoma Public Utilities to the fence line near the truck scale.  
Water was used to control dust. No visible dust was generated during this work activity.

On-site areas near the S. Gate location are capped with clean materials or covered with vegetation. No visible dust was generated on-site by vehicle traffic or winds during the sample period. We suspect that the increased traffic and dust generated from off-site utility equipment and vehicles likely contributed to the exceedance.

We also note that while the action evaluation trigger level of  $0.2 \mu\text{g}/\text{m}^3$  was exceeded, the result is well below the regulated action level of  $0.5 \mu\text{g}/\text{m}^3$ . We will continue to check our Hi-Vol results and inform you of any additional exceedances. The majority of the gravel lot was fenced on July 23, 2009, which should substantially reduce the amount of dust being generated by non-RA activities.

If you have any questions, please contact me at (253) 752-2185 extension 240, or via email to [eric@mcconstruction.com](mailto:eric@mcconstruction.com).

Sincerely,



Eric L. Pilcher, P.E.  
RA Coordinator/Development Project Engineer

cc: Loren Cohen, Point Ruston  
Gary Pedersen, Point Ruston

encl.





# SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com



07/23/2009

Point Ruston  
5219 N. Shirley St.,  
Suite 100  
Tacoma, WA 98407

Project: Air Monitoring  
Date Received: 07/20/2009  
Spectra Project: 2009070335

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8189654	1	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/13/2009
8189654	1	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/13/2009
8189653	2	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/13/2009
8189653	2	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/13/2009
8189652	3	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/13/2009
8189652	3	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/13/2009
8189651	4	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/14/2009
8189651	4	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/14/2009
8189650	5	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/14/2009
8189650	5	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/14/2009
8189649	6	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/14/2009
8189649	6	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/14/2009
8189648	7	Arsenic	0.11	µg/m3	SW846 6010B	Filter	07/15/2009
8189648	7	Lead	0.08	µg/m3	SW846 6010B	Filter	07/15/2009
8189646	8	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/15/2009
8189646	8	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/15/2009

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a8/scj



# SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • [www.spectra-lab.com](http://www.spectra-lab.com)

07/23/2009

Point Ruston  
5219 N. Shirley St.,  
Suite 100  
Tacoma, WA 98407

Project: Air Monitoring  
Date Received: 07/20/2009  
Spectra Project: 2009070335

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8189647	9	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/15/2009
8189647	9	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/15/2009
8189645	10	Arsenic	0.21	µg/m3	SW846 6010B	Filter	07/16/2009
8189645	10	Lead	0.14	µg/m3	SW846 6010B	Filter	07/16/2009
8189643	11	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/16/2009
8189643	11	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/16/2009
8189644	12	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/16/2009
8189644	12	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/16/2009
8189640	13	Arsenic	0.11	µg/m3	SW846 6010B	Filter	07/17/2009
8189640	13	Lead	0.10	µg/m3	SW846 6010B	Filter	07/17/2009
8189642	14	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/17/2009
8189642	14	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/17/2009
8189641	15	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/17/2009
8189641	15	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/17/2009

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

n8/scj



PAGE 1 of 1

## CHAIN OF CUSTODY RECORD

2009070335

POINT  
RUSTON5219 N. Shirley St., Suite 100 Tacoma, WA 98407  
Phone: 253-752-2185 Fax: 253-752-7083

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS		REMARKS	
Air Monitoring		POINT RUSTON LLC		AS Pb			
SAMPLERS: (Signature)		TIM R.					
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER		
7/13/09	SG		✓		81891054	✓	
7/13/09	OCF-VI		✓		81891053	✓	
7/13/09	OCF-NW		✓		81891052	✓	
7/14/09	SG		✓		81891051	✓	
7/14/09	OCF-VI		✓		81891050	✓	
7/14/09	OCF-NW		✓		81891049	✓	
7/15/09	SG		✓		81891048	✓	
7/15/09	OCF-VI		✓		81891046	✓	
7/15/09	OCF-NW		✓		81891047	✓	
7/16/09	SG		✓		81891045	✓	
7/16/09	OCF-VI		✓		81891043	✓	
7/16/09	OCF-NW		✓		81891044	✓	
7/17/09	SG		✓		81891040	✓	
7/17/09	OCF-VI		✓		81891042	✓	
7/17/09	OCF-NW		✓		81891041	✓	
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab	
TIM R.		7/20/09 11:37		Spectra		Shipped via: FedEx, UPS or Other	
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks	
7/20 1253							
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Enclosed:	
						<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter	
Split Samples:						Signature	
[ ] Accepted [ ] Declined							





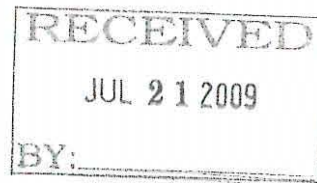






# SPECTRA Laboratories

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07/17/2009

Point Ruston  
5219 N. Shirley St.,  
Suite 100  
Tacoma, WA 98407

Project: Point Ruston LLC Hi-Vol  
Date Received: 07/13/2009  
Spectra Project: 2009070204

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8189672	1	Arsenic	0.07	µg/m3	SW846 6010B	Filter	07/06/2009
8189672	1	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/06/2009
8189668	2	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/06/2009
8189668	2	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/06/2009
8189667	3	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/06/2009
8189667	3	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/06/2009
8189669	4	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/07/2009
8189669	4	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/07/2009
8189666	5	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/07/2009
8189666	5	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/07/2009
8189665	6	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/07/2009
8189665	6	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/07/2009
8189664	7	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/08/2009
8189664	7	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/08/2009
8189663	8	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/08/2009
8189663	8	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/08/2009

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager  
a8/scj



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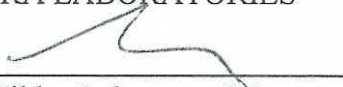
07/17/2009

Point Ruston  
5219 N. Shirley St.,  
Suite 100  
Tacoma, WA 98407

Project: Point Ruston LLC Hi-Vol  
Date Received: 07/13/2009  
Spectra Project: 2009070204

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8189662	9	Arsenic	0.06	µg/m3	SW846 6010B	Filter	07/08/2009
8189662	9	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/08/2009
8189661	10	Arsenic	0.11	µg/m3	SW846 6010B	Filter	07/09/2009
8189661	10	Lead	0.08	µg/m3	SW846 6010B	Filter	07/09/2009
8189660	11	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/09/2009
8189660	11	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/09/2009
8189659	12	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/09/2009
8189659	12	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/09/2009
8189657	13	Arsenic	0.08	µg/m3	SW846 6010B	Filter	07/10/2009
8189657	13	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/10/2009
8189656	14	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/10/2009
8189656	14	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/10/2009
8189655	15	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/10/2009
8189655	15	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/10/2009
8189658	16	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/09/2009
8189658	16	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/09/2009

SPECTRA LABORATORIES

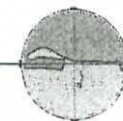


Steve Hibbs, Laboratory Manager

a8/scj

PAGE 1 of 2

2009070204

POINT  
RUSTON

## CHAIN OF CUSTODY RECORD

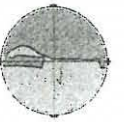
 5219 N. Shirley St., Suite 100 Tacoma, WA 98407  
 Phone: 253-752-2185 Fax: 253-752-7083

PROJ. NO		PROJECT NAME				NO. OF CONTAINERS	TOTAL	AS+PB							REMARKS
AIR MONITORING		POINT RUSTON LLC HI-VOL													
SAMPLERS: (Signature)															
														JR	
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER										
7/6/09	SG		✓		81896672		1	✓							
7/6/09	DCF-VI		✓		81896668		1	✓							
7/6/09	DCF-NW		✓		81896667		1	✓							
7/7/09	SG		✓		81896669		1	✓							
7/7/09	DCF-VI		✓		81896666		1	✓							
7/7/09	DCF-NW		✓		81896665		1	✓							
7/8/09	SG		✓		81896664		1	✓							
7/8/09	DCF-VI		✓		81896663		1	✓							
7/8/09	DCF-NW		✓		81896662		1	✓							
7/9/09	SG		✓		81896661		1	✓							
7/9/09	DCF-VI		✓		81896660		1	✓							
7/9/09	DCF-NW		✓		81896659		1	✓							
7/10/09	SG		✓		81896657		1	✓							
7/10/09	DCF-VI		✓		81896656		1	✓							
7/10/09	DCF-NW		✓		81896655		1	✓							
Relinquished (Signature)			Date/Time			Received by: (Signature)			Lab			Shipped via: FedEx, UPS or Other			
			7/13/09 0800						SPECTRA			Air Bill #			
Relinquished (Signature)			Date/Time			Received by: (Signature)			Remarks						
			7-13 0247												
Relinquished (Signature)			Date/Time			Received for Laboratory by: (Signature)			Date/Time			Enclosed:			
												<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter			
Split Samples:															
[ ] Accepted [ ] Declined															
Signature															



27-07-204

# POINT RUSTON



5219 N. Shirley St., Suite 100 Tacoma, WA 98407  
Phone: 253-752-2185 Fax: 253-752-7083

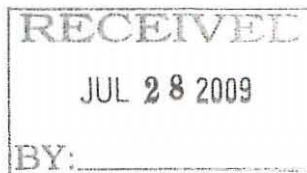
## CHAIN OF CUSTODY RECORD

[illegible]



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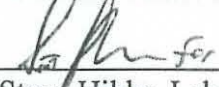
07/23/2009

Point Ruston  
5219 N. Shirley St.,  
Suite 100  
Tacoma, WA 98407

Project: Air Monitoring  
Date Received: 07/20/2009  
Spectra Project: 2009070335

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8189654	1	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/13/2009
8189654	1	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/13/2009
8189653	2	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/13/2009
8189653	2	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/13/2009
8189652	3	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/13/2009
8189652	3	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/13/2009
8189651	4	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/14/2009
8189651	4	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/14/2009
8189650	5	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/14/2009
8189650	5	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/14/2009
8189649	6	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/14/2009
8189649	6	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/14/2009
8189648	7	Arsenic	0.11	µg/m3	SW846 6010B	Filter	07/15/2009
8189648	7	Lead	0.08	µg/m3	SW846 6010B	Filter	07/15/2009
8189646	8	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/15/2009
8189646	8	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/15/2009

SPECTRA LABORATORIES

  
Steve Hibbs, Laboratory Manager

a8/scj





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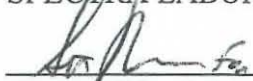
07/23/2009

Point Ruston  
5219 N. Shirley St.,  
Suite 100  
Tacoma, WA 98407

Project: Air Monitoring  
Date Received: 07/20/2009  
Spectra Project: 2009070335

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8189647	9	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/15/2009
8189647	9	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/15/2009
8189645	10	Arsenic	0.21	µg/m3	SW846 6010B	Filter	07/16/2009
8189645	10	Lead	0.14	µg/m3	SW846 6010B	Filter	07/16/2009
8189643	11	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/16/2009
8189643	11	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/16/2009
8189644	12	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/16/2009
8189644	12	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/16/2009
8189640	13	Arsenic	0.11	µg/m3	SW846 6010B	Filter	07/17/2009
8189640	13	Lead	0.10	µg/m3	SW846 6010B	Filter	07/17/2009
8189642	14	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/17/2009
8189642	14	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/17/2009
8189641	15	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/17/2009
8189641	15	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/17/2009

SPECTRA LABORATORIES

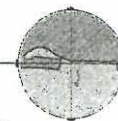


Steve Hibbs, Laboratory Manager  
a8/scj

PAGE 1 of 1

## CHAIN OF CUSTODY RECORD

2009070335

POINT  
RUSTON5219 N. Shirley St., Suite 100 Tacoma, WA 98407  
Phone: 253-752-2185 Fax: 253-752-7083

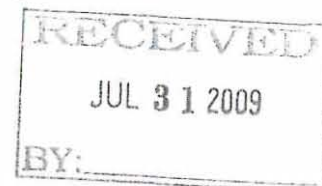
PROJ. NO		PROJECT NAME				NO. OF CONTAINERS	REMARKS										
Air Monitoring		POINT RUSTON LLC		Hi-VOL													
SAMPLERS: (Signature)																	
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER												
7/13/09	SG		✓		8189654	1	✓										
7/13/09	OCF-VI		✓		8189653	1	✓										
7/13/09	OCF-NW		✓		8189652	1	✓										
7/14/09	SG		✓		8189651	1	✓										
7/14/09	OCF-VI		✓		8189650	1	✓										
7/14/09	OCF-NW		✓		8189649	1	✓										
7/15/09	SG		✓		8189648	1	✓										
7/15/09	OCF-VI		✓		8189646	1	✓										
7/15/09	OCF-NW		✓		8189647	1	✓										
7/16/09	SG		✓		8189645	1	✓										
7/16/09	OCF-VI		✓		8189643	1	✓										
7/16/09	OCF-NW		✓		8189644	1	✓										
7/17/09	SG		✓		8189640	1	✓										
7/17/09	OCF-VI		✓		8189642	1	✓										
7/17/09	OCF-NW		✓		8189641	1	✓										
Relinquished (Signature)					Date/Time	Received by: (Signature)					Lab		Shipped via: FedEx, UPS or Other				
[Signature]					7/20/09 11:37	[Signature]					Spectra		Air Bill #				
Relinquished (Signature)					Date/Time	Received by: (Signature)					Remarks						
[Signature]					07-20 1253	[Signature]											
Relinquished (Signature)					Date/Time	Received for Laboratory by: (Signature)					Date/Time		Enclosed:				
													<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter				
Split Samples:																	
[ ] Accepted [ ] Declined																	
Signature																	





# SPECTRA Laboratories

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07/30/2009

Point Ruston  
5219 N. Shirley St.,  
Suite 100  
Tacoma, WA 98407

Project: Air Monitoring (Hi-vol)  
Date Received: 07/27/2009  
Spectra Project: 2009070439

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8189639	1	Arsenic	0.12	µg/m3	SW846 6010B	Filter	07/20/2009
8189639	1	Lead	0.08	µg/m3	SW846 6010B	Filter	07/20/2009
8189638	2	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/20/2009
8189638	2	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/20/2009
8189637	3	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/20/2009
8189637	3	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/20/2009
8189635	4	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/21/2009
8189635	4	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/21/2009
8189634	5	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/21/2009
8189634	5	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/21/2009
8189633	6	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/21/2009
8189633	6	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/21/2009
8189632	7	Arsenic	0.05	µg/m3	SW846 6010B	Filter	07/22/2009
8189632	7	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/22/2009
8189631	8	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/22/2009
8189631	8	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/22/2009

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a8/scj



# SPECTRA Laboratories

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07/30/2009

Point Ruston  
5219 N. Shirley St.,  
Suite 100  
Tacoma, WA 98407

Project: Air Monitoring (Hi-vol)  
Date Received: 07/27/2009  
Spectra Project: 2009070439

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8189630	9	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/22/2009
8189630	9	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/22/2009
8189629	10	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/23/2009
8189629	10	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/23/2009
8189628	11	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/23/2009
8189628	11	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/23/2009
8189627	12	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/23/2009
8189627	12	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/23/2009
8189626	13	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/24/2009
8189626	13	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/24/2009
8189625	14	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/24/2009
8189625	14	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/24/2009
8189624	15	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/24/2009
8189624	15	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/24/2009
8189636	16	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/20/2009
8189636	16	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/20/2009

SPECTRA LABORATORIES



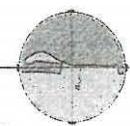
Steve Hibbs, Laboratory Manager

a8/scj



PAGE 1 OF 2

# POINT RUSTON



5219 N. Shirley St., Suite 100 Tacoma, WA 98407  
Phone: 253-752-2185 Fax: 253-752-7083

## CHAIN OF CUSTODY RECORD

2009070439

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS		REMARKS														
AIR MONITORING		Point Ruston LLC HI-VOL																		
SAMPLERS: (Signature)																				
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER															
7/20/09	SG		✓		8189639	1	✓													
7/20/09	OCF-VI		✓		8189638	1	✓													
7/20/09	OCF-NW		✓		8189637	1	✓													
7/21/09	SG		✓		8189635	1	✓													
7/21/09	OCF-VI		✓		8189634	1	✓													
7/21/09	OCF-NW		✓		8189633	1	✓													
7/22/09	SG		✓		8189632	1	✓													
7/22/09	OCF-VI		✓		8189631	1	✓													
7/22/09	OCF-NW		✓		8189630	1	✓													
7/23/09	SG		✓		8189629	1	✓													
7/23/09	OCF-VI		✓		8189628	1	✓													
7/23/09	OCF-NW		✓		8189627	1	✓													
7/24/09	SG		✓		8189626	1	✓													
7/24/09	OCF-VI		✓		8189625	1	✓													
7/24/09	OCF-NW		✓		8189624	1	✓													
Relinquished (Signature)			Date/Time			Received by: (Signature)			Lab			Shipped via: FedEx, UPS or Other								
			07-27 1335			alhatt			SPECTRA			Air Bill #								
Relinquished (Signature)			Date/Time			Received by: (Signature)			Remarks											
Relinquished (Signature)			Date/Time			Received for Laboratory by: (Signature)			Date/Time			Enclosed:								
												<input type="checkbox"/> Parameter List with DTLs								
												<input type="checkbox"/> Cover Letter								
Split Samples:																				
[ ] Accepted [ ] Declined																				
Signature																				

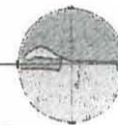
PAGE 2 OF 2

CHAIN OF CUSTODY RECORD

2009070439

**POINT  
RUSTON**

5219 N. Shirley St., Suite 100 Tacoma, WA 98407  
Phone: 253-752-2185 Fax: 253-752-7083



PROJ. NO AIR MONITORING		PROJECT NAME POINT RUSTON LLC (H1-VOL)				NO. OF CONTAINERS 1	REMARKS As Pb																	
SAMPLERS: (Signature) <i>[Signature]</i>																								
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER																			
1/20/09	CONTROL			✓	8184636	✓																		
<i>[Large X across grid]</i>																								
Relinquished (Signature) <i>[Signature]</i>			Date/Time 07-27 1335		Received by: (Signature) <i>[Signature]</i>		Lab Spectra		Shipped via: FedEx, UPS or Other Air Bill #															
Relinquished (Signature)			Date/Time		Received by: (Signature)		Remarks																	
Relinquished (Signature)			Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter															
Split Samples: [ ] Accepted [ ] Declined																								
Signature																								



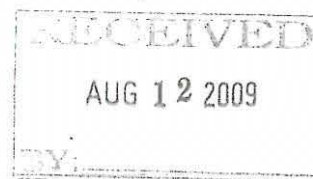
**SPECTRA LABORATORIES - ELECTRONIC DISK DELIVERABLE REPORT**  
**PERSONAL AIR MONITORING**

CLIENT ID	CLIENT PROJECT	SPECTRA Project #	Matrix	Date Sampled	Date Analyzed	Method	Analyte Compound	Result	Data Qualifiers	Units	TWA <sub>8</sub>	Units	Phase	Company
072909-646	LID Exposure Evaluation	2009070532	Air Cassette Filter	7/29/2009	8/11/2009	SW846 6020A	Arsenic	0.150		µg/m³	0.14000	µg/m³	Soil Placement	Point Ruston, LLC
072909-646	LID Exposure Evaluation	2009070532	Air Cassette Filter	7/29/2009	8/11/2009	SW846 3050B	Digestion	d						
072909-646	LID Exposure Evaluation	2009070532	Air Cassette Filter	7/29/2009	8/11/2009	SW846 6020A	Lead	0.190		µg/m³	0.17733	µg/m³	Soil Placement	Point Ruston, LLC
072909-719	LID Exposure Evaluation	2009070532	Air Cassette Filter	7/29/2009	8/11/2009	SW846 6020A	Arsenic	0.080		µg/m³	0.07250	µg/m³	Soil Placement	Point Ruston, LLC
072909-719	LID Exposure Evaluation	2009070532	Air Cassette Filter	7/29/2009	8/11/2009	SW846 3050B	Digestion	d						
072909-719	LID Exposure Evaluation	2009070532	Air Cassette Filter	7/29/2009	8/11/2009	SW846 6020A	Lead	0.110		µg/m³	0.09969	µg/m³	Soil Placement	Point Ruston, LLC
072909-123	LID Exposure Evaluation	2009070532	Air Cassette Filter	7/29/2009	8/11/2009	SW846 6020A	Arsenic	1.100		µg/m³	0.99688	µg/m³	Soil Placement	Point Ruston, LLC
072909-123	LID Exposure Evaluation	2009070532	Air Cassette Filter	7/29/2009	8/11/2009	SW846 3050B	Digestion	d						
072909-123	LID Exposure Evaluation	2009070532	Air Cassette Filter	7/29/2009	8/11/2009	SW846 6020A	Lead	1.300		µg/m³	1.17813	µg/m³	Soil Placement	Point Ruston, LLC
072909-181	LID Exposure Evaluation	2009070532	Air Cassette Filter	7/29/2009	8/11/2009	SW846 6020A	Arsenic	0.160		µg/m³	0.14667	µg/m³	Soil Placement	Point Ruston, LLC
072909-181	LID Exposure Evaluation	2009070532	Air Cassette Filter	7/29/2009	8/11/2009	SW846 3050B	Digestion	d						
072909-181	LID Exposure Evaluation	2009070532	Air Cassette Filter	7/29/2009	8/11/2009	SW846 6020A	Lead	0.160		µg/m³	0.14667	µg/m³	Soil Placement	Point Ruston, LLC



# SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • [www.spectra-lab.com](http://www.spectra-lab.com)



08/11/2009

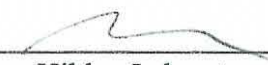
Point Ruston  
5219 N. Shirley St.,  
Suite 100  
Tacoma, WA 98407

Project: LID Exposure Evaluation  
Sample Matrix: Air Cassette  
Date Sampled: 07/29/2009  
Date Received: 07/30/2009  
Spectra Project: 2009070532

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
072909-646	1	Arsenic	0.15	µg/Filter	SW846 6020A
072909-646	1	Lead	0.19	µg/Filter	SW846 6020A
072909-719	2	Arsenic	0.08	µg/Filter	SW846 6020A
072909-719	2	Lead	0.11	µg/Filter	SW846 6020A
072909-123	3	Arsenic	1.1	µg/Filter	SW846 6020A
072909-123	3	Lead	1.3	µg/Filter	SW846 6020A
072909-181	4	Arsenic	0.16	µg/Filter	SW846 6020A
072909-181	4	Lead	0.16	µg/Filter	SW846 6020A

Results reported in total weight of analyte in micrograms (ug) per filter. Time and air flow rates not provided.

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a7/sgb



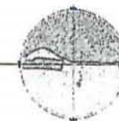
PAGE 1 of 1

## CHAIN OF CUSTODY RECORD

2009070532

# POINT RUSTON

5219 N. Shirley St., Suite 100 Tacoma, WA 98407  
Phone: 253-752-2185 Fax: 253-752-7083



PROJ. NO		PROJECT NAME		NO. OF CONTAINERS		REMARKS															
LID		EXPOSURE EVALUATION																			
SAMPLERS: (Signature)																					
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER																
7/29/09				✓	072909-646	1	✓														
7/29/09				✓	072909-719	1	✓														
7/29/09				✓	072909-123	1	✓														
7/29/09				✓	072909-181	1	✓														
						<p>PLEASE EMAIL RESULTS TO: TIM2@POINTRUSTON.COM</p> <p>THANK YOU</p>															

Relinquished (Signature)

Date/Time

07-30 1335

Received by: (Signature)

allcott

Relinquished (Signature)

Date/Time

Received by: (Signature)

Relinquished (Signature)

Date/Time

Received for Laboratory by: (Signature)

Lab

SPECTRA

Shipped via: FedEx, UPS or Other

Remarks

Enclosed:

☐ Parameter List with DTLs
 ☐ Cover Letter

Split Samples:

☐ Accepted
 ☐ Declined

Signature

COC Form - 8/07



Weekly Site Inspection Report No. 2009-0628  
 Week of 6/28 - 7/4, 2009 Inspector Tim Ruster

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
<b>Gates:</b>						
North (electric)	(G)	F	P	Y	(N)	
South (electric)	(G)	F	P	Y	(N)	
Pond	(G)	F	P	Y	(N)	
Peninsula	(G)	F	P	Y	(N)	
54 <sup>th</sup> (Other) Electric	(G)	F	P	Y	(N)	
<b>Signage:</b>						SEE NOTES
Gates	(G)	F	P	Y	(N)	
Perimeter	(G)	F	P	Y	(N)	
Safety	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Public Streets:</b>						
Ruston Way	(G)	F	P	Y	(N)	
51 <sup>st</sup> & Gallagher	(G)	F	P	Y	(N)	
Stack Hill	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>BMPs:</b>						
Berms	(G)	F	P	Y	(N)	
Waddles	(G)	F	P	Y	(N)	
Silt Fence	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Strom drains clean:</b>						
Lower Site	(G)	F	P	(Y)	N	
Stack Hill	(G)	F	P	Y	(N)	
<b>Stockpiles:</b>						
Envirotac II	(G)	F	P	Y	N	
Plastic	(G)	F	P	Y	N	
Packed	(G)	F	P	Y	N	
Grass	(G)	F	P	Y	N	
<b>Dust:</b>						
Traffic areas	(G)	F	P	Y	(N)	
Excavation area	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Fencing:</b>						
Site Perimeter	(G)	F	P	Y	(N)	NOTE: COOLING POND HAS OPENINGS IN FENCE @ R.R. TRACKS + GALLAGHER WAY GUARDRAIL. PEOPLE + ANIMALS CAN EASILY ACCESS AREA. IT'S BEEN THAT WAY FOR YEARS.
Zone Separation	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	



**Weekly Site Inspection Report No. 2009-0628**  
**Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)**

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
<b>Docks:</b>						
Barriers	(G)	F	P	Y	(N)	
Signs	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Cameras:</b>						
<u>STACK Hill #32</u>	G	(F)	P	Y	(N)	REMOTE VIEWING NOT AVAILABLE.
	G	F	(P)	(Y)	N	WORKING ON OTHER CAMERAS FOR
	G	F	(P)	(Y)	N	REMOTE VIEWING
<b>Health &amp; Safety Plans:</b>						
Site Superintendant	G	F	P	Y	N	
Construction Super.	G	F	P	Y	N	
Other	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

**Misc. notes:** CONDUCTED ENHANCED PERIMETER PATROL + SIGNAGE INSPECTION PRIOR TO JULY 4<sup>TH</sup> COMMUNITY EVENT, WHICH IS KNOWN TO ATTRACT CURIOUS PEOPLE DURING CELEBRATION ACTIVITIES.

**WEATHER:**

Day of Week	Summary of Weather Conditions
Sunday <u>6/28</u>	<u>55°F</u> / <u>69°F</u> N WINDS <u>1.0</u> MPH/GUST <u>13</u> MPH, NO PRECIPITATION
Monday <u>29</u>	<u>49°F</u> / <u>73°F</u> NNE WINDS <u>1.3</u> MPH/GUST <u>11</u> MPH, NO PRECIPITATION
Tuesday <u>30</u>	<u>52°F</u> / <u>74°F</u> N WINDS <u>1.3</u> MPH/GUST <u>11</u> MPH, NO PRECIPITATION
Wednesday <u>7/1</u>	<u>50°F</u> / <u>76°F</u> N WINDS <u>1.8</u> MPH/GUST <u>13</u> MPH, NO PRECIPITATION
Thursday <u>2</u>	<u>53°F</u> / <u>82°F</u> N WINDS <u>1.5</u> MPH/GUST <u>12</u> MPH, NO PRECIPITATION
Friday <u>3</u>	<u>54°F</u> / <u>85°F</u> ENE WINDS <u>1.2</u> MPH/GUST <u>10</u> MPH, NO PRECIPITATION
Saturday <u>4</u>	<u>55°F</u> / <u>85°F</u> SSW WINDS <u>1.7</u> MPH/GUST <u>10</u> MPH, NO PRECIPITATION

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 7/6/09 SIGNED: [Signature] TIM R.

Title/Qualification of Inspector: CONSTRUCTION OVERSIGHT / HEALTH & SAFETY OFFICER



Weekly Site Inspection Report No. 2009-0705  
 Week of 7/5-11/09 Inspector TIM RUSHER  
 Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
<b>Gates:</b>						
North (electric)	(G)	F	P	Y	(N)	
South (electric)	(G)	F	P	Y	(N)	
Pond	(G)	F	P	Y	(N)	
Peninsula	(G)	F	P	Y	(N)	
SYM (Other) ELECT.	(G)	F	P	Y	(N)	
<b>Signage:</b>						
Gates	(G)	F	P	Y	(N)	
Perimeter	(G)	F	P	Y	(N)	
Safety	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Public Streets:</b>						
Ruston Way	(G)	F	P	Y	(N)	
51 <sup>st</sup> & Gallagher	(G)	F	P	Y	(N)	
Stack Hill	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>BMPs:</b>						
Berms	(G)	F	P	Y	(N)	
Waddles	(G)	F	P	Y	(N)	
Silt Fence	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Strom drains clean:</b>						
Lower Site	(G)	F	P	Y	(N)	LOWER SITE C.B.'S CLEANED FROM COOLING POND TO N. OUTFALL. 7/7-7/8
Stack Hill	(G)	F	P	Y	(N)	
<b>Stockpiles:</b>						
Envirotac II	(G)	F	P	Y	(N)	ALL PILES STABILIZED. NO ADDITIONAL EROSION OR DUST
Plastic	(G)	F	P	Y	(N)	
Packed	(G)	F	P	Y	(N)	
Grass	(G)	F	P	Y	(N)	
<b>Dust:</b>						
Traffic areas	(G)	F	P	Y	(N)	
Excavation area	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Fencing:</b>						
Site Perimeter	(G)	F	P	Y	(N)	
Zone Separation	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	



**Weekly Site Inspection Report No. 2009-0705**  
**Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)**

INSPECTION AREA	OVERALL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
<b>Docks:</b>						
Barriers	(G)	F	P	Y	(N)	
Signs	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Cameras:</b>						
# 32 - STACK HILL	(G)	F	P	Y	(N)	
	G	F	(P)	(Y)	N	
<u>OTHERS</u>	G	F	(P)	(Y)	N	
<b>Health &amp; Safety Plans:</b>						
Site Superintendant	G	(F)	P	(Y)	N	NEED TO COMPLETE + SUBMIT V. 5
Construction Super.	G	(F)	P	(Y)	N	
Other	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

<b>Misc. notes:</b>

**WEATHER:**

Day of Week	Summary of Weather Conditions
Sunday 7/5	58°F/74°F SSW WINDS 4 MPH/GUST 3 MPH, NO PRECIPITATION
Monday 6	55°F/67°F SSW WINDS 0.2 MPH/GUST 24 MPH, NO PRECIPITATION
Tuesday 7	54°F/67°F SSW WINDS 4.1 MPH/GUST 17 MPH, NO PRECIPITATION
Wednesday 8	54°F/67°F SSW WINDS 2.3 MPH/GUST 15 MPH, NO PRECIPITATION
Thursday 9	54°F/79°F WSW WINDS 1 MPH/GUST 9 MPH, NO PRECIPITATION
Friday 10	55°F/80°F N WINDS 1.4 MPH/GUST 12 MPH, NO PRECIPITATION
Saturday 11	57°F/84°F SSW WINDS 2.5 MPH/GUST 11 MPH, NO PRECIPITATION

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 7/13/09

SIGNED: \_\_\_\_\_

TIM R

Title/Qualification of Inspector: CONSTRUCTION OVERSIGHT / HEALTH & SAFETY OFFICER



Weekly Site Inspection Report No. 2009-0712  
 Week of 7/12-18, 2009 Inspector TIM RUSHER

**Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)**

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
<b>Gates:</b>						
North (electric)	(G)	F	P	Y	(N)	
South (electric)	(G)	F	P	Y	(N)	
Pond	(G)	F	P	Y	(N)	
Peninsula	(G)	F	P	Y	(N)	
54th (Other) Electric	(G)	F	P	Y	(N)	
<b>Signage:</b>						
Gates	(G)	F	P	Y	(N)	
Perimeter	(G)	F	P	Y	(N)	
Safety	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	(N)	
<b>Public Streets:</b>						
Ruston Way	(G)	F	P	Y	(N)	
51st & Gallagher	(G)	F	P	Y	(N)	
Stack Hill	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>BMPs:</b>						
Berms	(G)	F	P	Y	(N)	
Waddles	(G)	F	P	Y	(N)	
Silt Fence	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Strom drains clean:</b>						
Lower Site	(G)	F	P	Y	(N)	
Stack Hill	(G)	F	P	Y	(N)	
<b>Stockpiles:</b>						
Envirotac II	(G)	F	P	Y	(N)	NO CHANGE IN PILE CONDITIONS NO EROSION OR DUST ISSUES NOTED.
Plastic	(G)	F	P	Y	(N)	
Packed	(G)	F	P	Y	(N)	
Grass	(G)	F	P	Y	(N)	
<b>Dust:</b>						
Traffic areas	(G)	F	P	Y	(N)	NO OPEN EXCAVATION AREAS
Excavation area	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Fencing:</b>						
Site Perimeter	(G)	F	P	Y	(N)	
Zone Separation	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	



**Weekly Site Inspection Report No. 2009-0712**  
**Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)**

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
<b>Docks:</b>						
Barriers	(G)	F	P	Y	(N)	
Signs	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Cameras:</b>						
STACK Hill #32	(G)	F	P	Y	(N)	
	G	F	P	Y	N	
	G	F	P	Y	N	
<b>Health &amp; Safety Plans:</b>						
Site Superintendant	(G)	F	P	(Y)	N	NEED TO COMPLETE V. 5 DRAFT II
Construction Super.	(G)	F	P	(Y)	N	
Other	(G)	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

**Misc. notes:** FINISHED SET UP OF ON SITE WATER STORAGE TANK FOR DUST CONTROL (FILLING WATER TRUCKS).

**WEATHER:**

Day of Week	Summary of Weather Conditions
Sunday 12	Low 51° High 64° SSW WINDS 44 mph / GUST 20 mph, NO PRECIPITATION
Monday 13	Low 50° High 64° SSW WINDS 39 mph / GUST 18 mph, PRECIP MORNING 0.01"
Tuesday 14	Low 50° High 75° WSW WINDS 0.8 mph / GUST 11 mph, NO PRECIPITATION
Wednesday 15	Low 54° High 79° NNE WINDS 0.8 mph / GUST 7 mph, NO PRECIPITATION
Thursday 16	Low 58° High 85° NNE WINDS 0.8 mph / GUST 10 mph, NO PRECIPITATION
Friday 17	Low 61° High 91° S WINDS 0.7 mph / GUST 10 mph, NO PRECIPITATION
Saturday 18	Low 57° High 81° SSW WINDS 2.5 mph / GUST 9 mph, NO PRECIPITATION

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 7/20/09 SIGNED:  Tim R.

Title/Qualification of Inspector: CONSTRUCTION OVERSIGHT / HEALTH & SAFETY OFFICER





Weekly Site Inspection Report No. 2009-0719  
 Week of 7/19-7/25, 2009 Inspector TIM RUSHER  
 Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
<b>Gates:</b>						
North (electric)	(G)	F	P	Y	(N)	
South (electric)	(G)	F	P	Y	(N)	
Pond	(G)	F	P	Y	(N)	
Peninsula	(G)	F	P	Y	(N)	
54 <sup>th</sup> (Other) <u>2009</u>	(G)	F	P	Y	(N)	
<b>Signage:</b>						
Gates	(G)	F	P	Y	(N)	
Perimeter	G	(F)	P	(Y)	N	NEED TO ADD SIGNAGE TO NEW FENCE AT SOUTH END.
Safety	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Public Streets:</b>						
Ruston Way	(G)	F	P	Y	(N)	
51 <sup>st</sup> & Gallagher	(G)	F	P	Y	(N)	WATERED AS NEEDED BY NUPRECON DURING EXPORT OF CONCRETE.
Stack Hill	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>BMPs:</b>						
Berms	(G)	F	P	Y	(N)	
Waddles	(G)	F	P	Y	(N)	
Silt Fence	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Strom drains clean:</b>						
Lower Site	(G)	F	P	Y	(N)	(SEE MISC. NOTES)
Stack Hill	(G)	F	P	Y	(N)	(SEE MISC. NOTES)
<b>Stockpiles:</b>						All PILES HOLDING FIRM
Envirotac II	(G)	F	P	Y	(N)	
Plastic	(G)	F	P	Y	(N)	
Packed	(G)	F	P	Y	(N)	
Grass	(G)	F	P	Y	(N)	
<b>Dust:</b>						
Traffic areas	(G)	F	P	Y	(N)	USING ADDITIONAL WATER AS NEEDED
Excavation area	(G)	F	P	Y	(N)	(5 WATER TRUCKS, 1 TRAILER)
(Other)	G	F	P	Y	N	
<b>Fencing:</b>						
Site Perimeter	(G)	F	P	Y	(N)	(SEE MISC. NOTES)
Zone Separation	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	

**Weekly Site Inspection Report No. 2009-0719**  
**Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)**

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
<b>Docks:</b>						
Barriers	<u>G</u>	F	P	Y	<u>N</u>	
Signs	<u>G</u>	F	P	Y	<u>N</u>	
(Other)	G	F	P	Y	N	
<b>Cameras:</b>						
<u>STACK HILL #32</u>	<u>G</u>	F	P	Y	<u>N</u>	
	G	F	P	Y	N	
	G	F	P	Y	N	
<b>Health &amp; Safety Plans:</b>						
Site Superintendant	G	<u>F</u>	P	<u>Y</u>	N	FINALIZING CHANGES TO V. 5
Construction Super.	G	<u>F</u>	P	<u>Y</u>	N	
Other	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

<b>Misc. notes:</b>
STACK HILL RETENTION POND HAS BEEN DECOMMISSIONED AND RUN-OFF CHanneled/PIPED TO COOLING POND, & NORTH OUTFALL SYSTEM.
ADDED TEMPORARY CONSTRUCTION FENCING AT SOUTH END OF SITE TO ENCOMPASS THE SOUTH END OF LID CONSTRUCTION.

**WEATHER:**

Day of Week	Summary of Weather Conditions
Sunday 19	56°F/77°F, NNE WINDS 5 mph/GUST 10 mph, NO PRECIPITATION
Monday 20	56°F/80°F NNE WINDS 4 mph/GUST 12 mph, NO PRECIPITATION
Tuesday 21	59°F/90°F SW WINDS 5.2 mph/GUST 15 mph, NO PRECIPITATION
Wednesday 22	56°F/76°F SW WIND 6 mph/GUST 14 mph, NO PRECIPITATION
Thursday 23	57°F/73°F SW WIND 6 mph/GUST 11 mph, NO PRECIPITATION
Friday 24	56°F/78°F SW WIND 4 mph/GUST 7 mph, NO PRECIPITATION
Saturday 25	61°F/40°F NW WIND 3 mph/GUST 7 mph, NO PRECIPITATION

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 7/28/09 SIGNED: [Signature]  
 Title/Qualification of Inspector: CONSTRUCTION OVERSIGHT/HEALTH & SAFETY OF CA,





**Weekly Site Inspection Report No. 2009-0726**  
**Week of 7/26 - 8/1, 2009 Inspector TIM RUSHER**  
**Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)**

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
<b>Gates:</b>						
North (electric)	(G)	F	P	Y	(N)	
South (electric)	(G)	F	P	Y	(N)	
Pond	(G)	F	P	Y	(N)	
Peninsula	(G)	F	P	Y	(N)	
54 <sup>th</sup> (Other) <i>ELECTRIC</i>	(G)	F	P	Y	(N)	
<b>Signage:</b>						
Gates	(G)	F	P	Y	(N)	
Perimeter	(G)	F	P	Y	(N)	
Safety	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Public Streets:</b>						
Ruston Way	(G)	F	P	Y	(N)	
51 <sup>st</sup> & Gallagher	(G)	F	P	Y	(N)	
Stack Hill	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>BMPs:</b>						
Berms	(G)	F	P	Y	(N)	
Waddles	(G)	F	P	Y	(N)	
Silt Fence	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Strom drains clean:</b>						
Lower Site	G	(F)	P	Y	N	<i>City Dumped Dirty Water Through System</i>
Stack Hill	(G)	F	P	Y	N	
<b>Stockpiles:</b>						
Envirotac II	(G)	F	P	Y	(N)	
Plastic	(G)	F	P	Y	(N)	
Packed	(G)	F	P	Y	(N)	
Grass	(G)	F	P	Y	(N)	
<b>Dust:</b>						
Traffic areas	(G)	F	P	Y	(N)	
Excavation area	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Fencing:</b>						
Site Perimeter	(G)	F	P	Y	(N)	
Zone Separation	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	



**Weekly Site Inspection Report No. 2009-0726**  
**Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)**

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
<b>Docks:</b>						
Barriers	(G)	F	P	Y	(N)	
Signs	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Cameras:</b>						
<u>STACK Hill #32</u>	(G)	F	P	Y	(N)	
	G	F	P	Y	N	
	G	F	P	Y	N	
<b>Health &amp; Safety Plans:</b>						
Site Superintendant	G	(F)	P	(Y)	N	V.5 UPDATE IN PROGRESS
Construction Super.	G	(F)	P	(Y)	N	SPANISH DONE -
Other	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

**Misc. notes:** <sup>7-27-09</sup> KEITH NOTED THAT CITY OF TACOMA WAS FLUSHING WATER LINES IN THE VICINITY RESULTING IN DIRTY WATER FILLING THE WATER STORAGE TANK & GOING THROUGH THE N. OUTFALL. ON 7-29-09 I DOCUMENTED CITY OF TACOMA DOING WATER WORK, FLUSHING LARGE AMOUNTS OF SILTY WATER INTO STORM DRAINS AT COMMERCIAL & WINNIFRED. MATCHING QUANTITIES WERE SEEN DUMPING INTO THE BAY SHORTLY AFTERWARDS. NOTE: ALL SITE CB'S WERE CLEANED ON 7-7-09.

**WEATHER:**

Day of Week	Summary of Weather Conditions
Sunday <u>7/26</u>	<u>61/87</u> NW WINDS 4 mph / GUST 9 mph, NO PRECIPITATION
Monday <u>27</u>	<u>64/91</u> NE WINDS 4.5 mph / GUST 7 mph, NO PRECIPITATION
Tuesday <u>28</u>	<u>67/94</u> NE WINDS 4 mph / GUST 8 mph, NO PRECIPITATION
Wednesday <u>29</u>	<u>69/102</u> NNE WIND 3.5 mph / GUST 6 mph, NO PRECIPITATION
Thursday <u>30</u>	<u>63/97</u> SW WIND 10 mph / GUST 10 mph, NO PRECIPITATION
Friday <u>31</u>	<u>60/84</u> SW WIND 5.8 mph / GUST 8 mph, NO PRECIPITATION
Saturday <u>8/1</u>	<u>55/86</u> SW WIND 5 mph / GUST 7 mph, NO PRECIPITATION

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 8/3/09

SIGNED: \_\_\_\_\_

Title/Qualification of Inspector: CONSTRUCTION OVERSIGHT / HEALTH & SAFETY OFFICER

## City of Tacoma Stormdrain Discharge to Point Ruston North Outfall

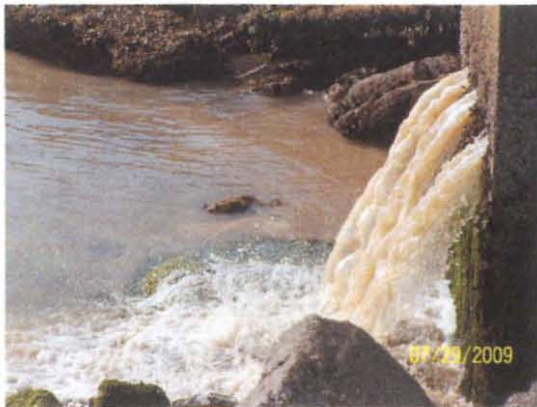
PREPARED FOR: Kevin Rochlin, EPA

PREPARED BY: Janice Horton

DATE: August 3, 2009

City of Tacoma performed stormdrain cleaning on July 29, 2009. The locations of the stormdrains were on Winnifred Street, West of Stack Hill. The catchbasins were flooded with water, causing them to overflow and drain downhill along curbs. Water was eventually captured in the stormdrain system and discharged to the North outfall located on Point Ruston property near the loading dock. The discharge at the outfall was cloudy and caused a plume of sediment into the bay. Tim Rusher of Point Ruston took pictures during discharge and alerted CH2M HILL staff, Janice Horton of the situation. Tim and Janice toured the cleaning area documenting with photos post-discharge. Photos are below.

### Outfall





### Stormdrain Cleaning



### Post-Stormdrain Cleaning. Pictures taken 7/29/09









## MEMORANDUM

July 3, 2009

SUBJECT: RECENT AREA EARTHQUAKE (SEISMIC EVENT)

On July 1, 2009 at about 5:09 AM a 3.7 magnitude earthquake was reported approximately 62 miles north (N) of the Onsite Containment Facility (OCF), near Coupeville, WA on Whidbey Island. Tremors were only reported felt as far south as Bremerton & Seattle and were reported as “not felt” to “weak”. A Post earthquake inspection was not conducted as there were no noticeable effects and the quake was not considered to be a *significant* seismic event.

If you have any questions, please contact me.

Sincerely,

Tim Rusher  
Construction Oversight/Health & Safety Officer

ATTACHMENTS:

3 PAGES QUAKE DATA

## Magnitude 3.7 - PUGET SOUND REGION, WASHINGTON

2009 July 01 12:09:17 UTC

[Details](#) [Summary](#) [Maps](#) [Scientific & Technical](#) [Additional Info](#) [Where can I find...?](#)

### Earthquake Details

<b>Magnitude</b>	<b>3.7</b>
<b>Date-Time</b>	<b>Wednesday, July 01, 2009 at 12:09:17 UTC</b> Wednesday, July 01, 2009 at 05:09:17 AM at epicenter <a href="#">Time of Earthquake in other Time Zones</a>
<b>Location</b>	48.194°N, 122.634°W
<b>Depth</b>	59.1 km (36.7 miles) set by location program
<b>Region</b>	PUGET SOUND REGION, WASHINGTON
<b>Distances</b>	5 km (3 miles) SE (126°) from <b>Coupeville, WA</b> 11 km (7 miles) S (171°) from <b>Oak Harbor, WA</b> 11 km (7 miles) W (270°) from <b>Camano, WA</b> 65 km (40 miles) ESE (120°) from <b>Saanich, British Columbia, Canada</b> 67 km (42 miles) NNW (341°) from <b>Seattle, WA</b>
<b>Location Uncertainty</b>	horizontal +/- 0.4 km (0.2 miles); depth fixed by location program
<b>Parameters</b>	NST= 77, Nph= 90, Dmin=10 km, Rmss=0.2 sec, Gp= 25°, M-type=duration magnitude (Md), Version=1
<b>Source</b>	<a href="#">Pacific Northwest Seismograph Network</a>
<b>Event ID</b>	uw07011209

This event has been reviewed by a seismologist.

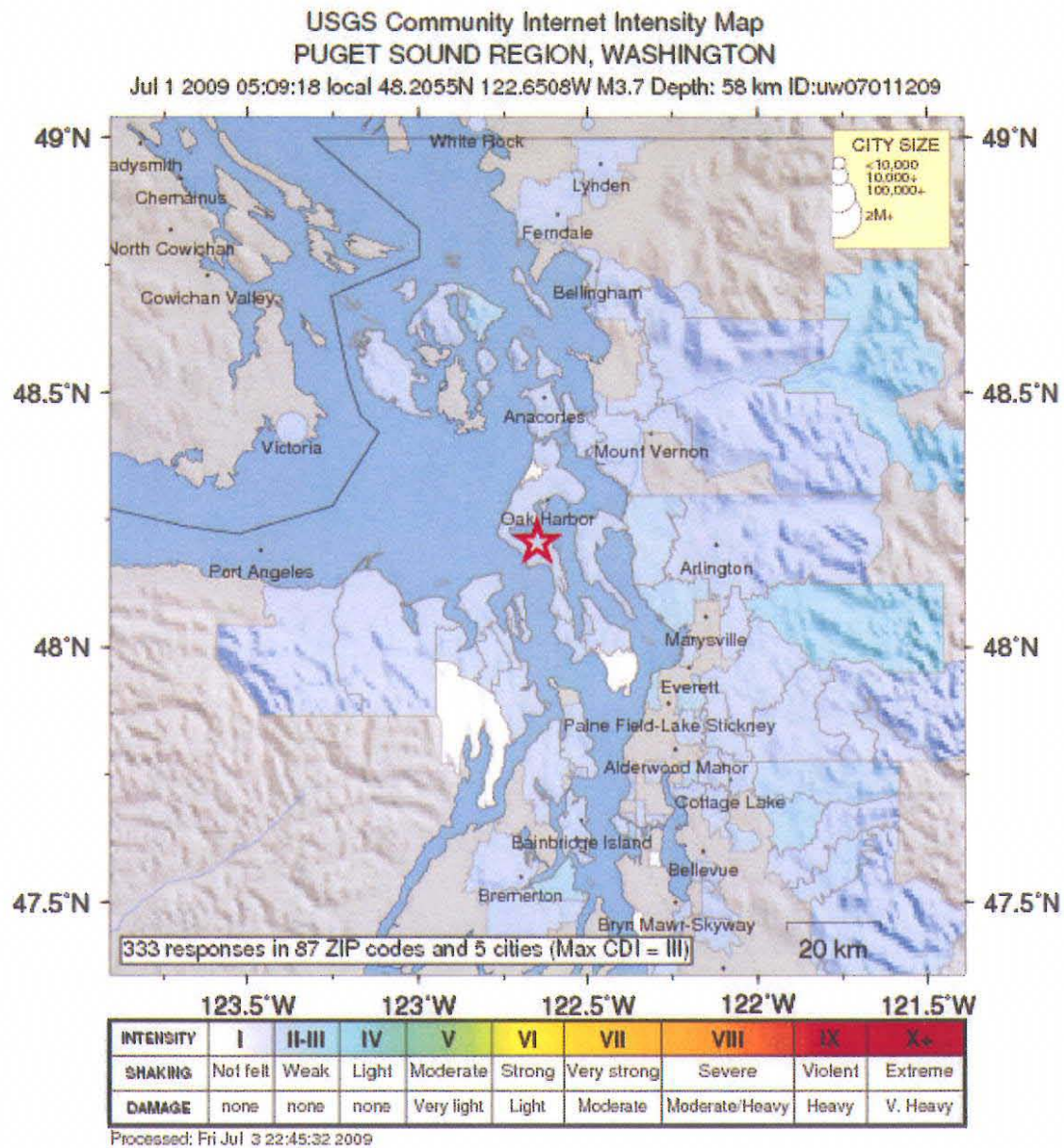
**Did you feel it?** Report shaking and damage at your location. You can also view a map displaying accumulated data from your report and others.

---

### Preliminary Earthquake Report

[Pacific Northwest Seismograph Network](#)







# Washington, United States, North America



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## MEMORANDUM

July 3, 2009

SUBJECT: RECENT AREA EARTHQUAKE (SEISMIC EVENT)

On July 2, 2009 at about 3:40 PM a 3.2 magnitude earthquake was reported approximately 37.4 miles north (N) of the Onsite Containment Facility (OCF), near the Hood Canal Bridge on the Kitsap Peninsula. Tremors were only reported felt as far south as Bremerton and Belfair and were reported as "not felt" to "weak". A Post earthquake inspection was not conducted as there were no noticeable effects and the quake was not considered to be a *significant* seismic event.

If you have any questions, please contact me.

Sincerely,

Tim Rusher  
Construction Oversight/Health & Safety Officer

ATTACHMENTS

3 PAGES QUAKE DATA



## Magnitude 3.2 - SEATTLE-TACOMA URBAN AREA, WASHINGTON

2009 July 02 22:40:10 UTC

[Details](#) [Summary](#) [Maps](#) [Scientific & Technical](#) [Additional Info](#) [Where can I find...?](#)

### Earthquake Details

<b>Magnitude</b>	<b>3.2</b>
<b>Date-Time</b>	<b>Thursday, July 02, 2009 at 22:40:10 UTC</b> Thursday, July 02, 2009 at 03:40:10 PM at epicenter <a href="#">Time of Earthquake in other Time Zones</a>
<b>Location</b>	47.837°N, 122.612°W
<b>Depth</b>	26 km (16.2 miles) set by location program
<b>Region</b>	SEATTLE-TACOMA URBAN AREA, WASHINGTON
<b>Distances</b>	9 km (6 miles) WNW (297°) from <b>Kingston, WA</b> 11 km (7 miles) N (11°) from <b>Poulsbo, WA</b> 11 km (7 miles) SSE (148°) from <b>Port Ludlow, WA</b> 31 km (20 miles) NW (318°) from <b>Seattle, WA</b>
<b>Location Uncertainty</b>	horizontal +/- 0.2 km (0.1 miles); depth fixed by location program
<b>Parameters</b>	NST= 59, Nph= 60, Dmin=9 km, Rmss=0.23 sec, Gp= 40°, M-type=duration magnitude (Md), Version=2
<b>Source</b>	<a href="#">Pacific Northwest Seismograph Network</a>
<b>Event ID</b>	uw07022240

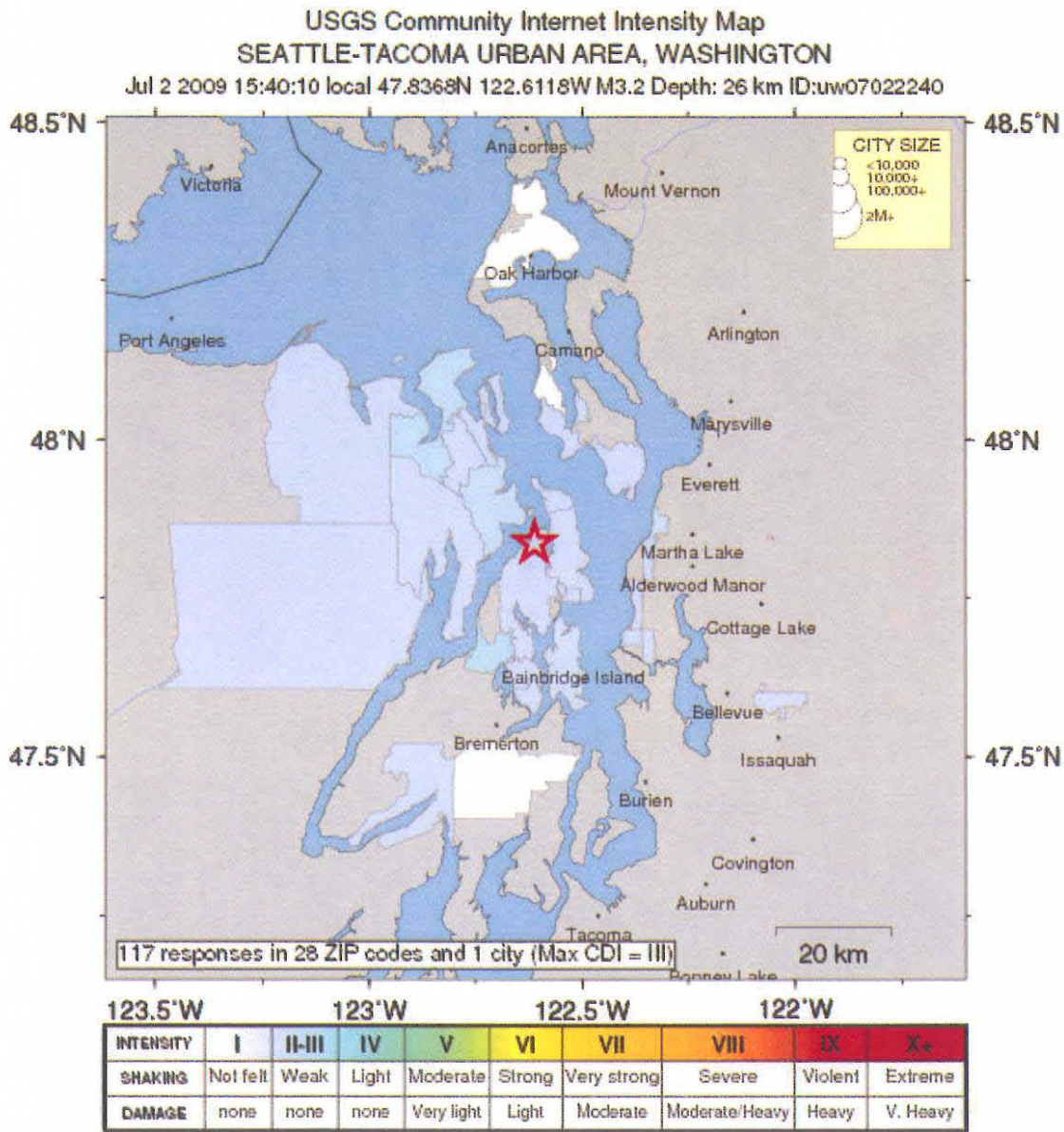
This event has been reviewed by a seismologist.

[Did you feel it?](#) Report shaking and damage at your location. You can also view a map displaying accumulated data from your report and others.

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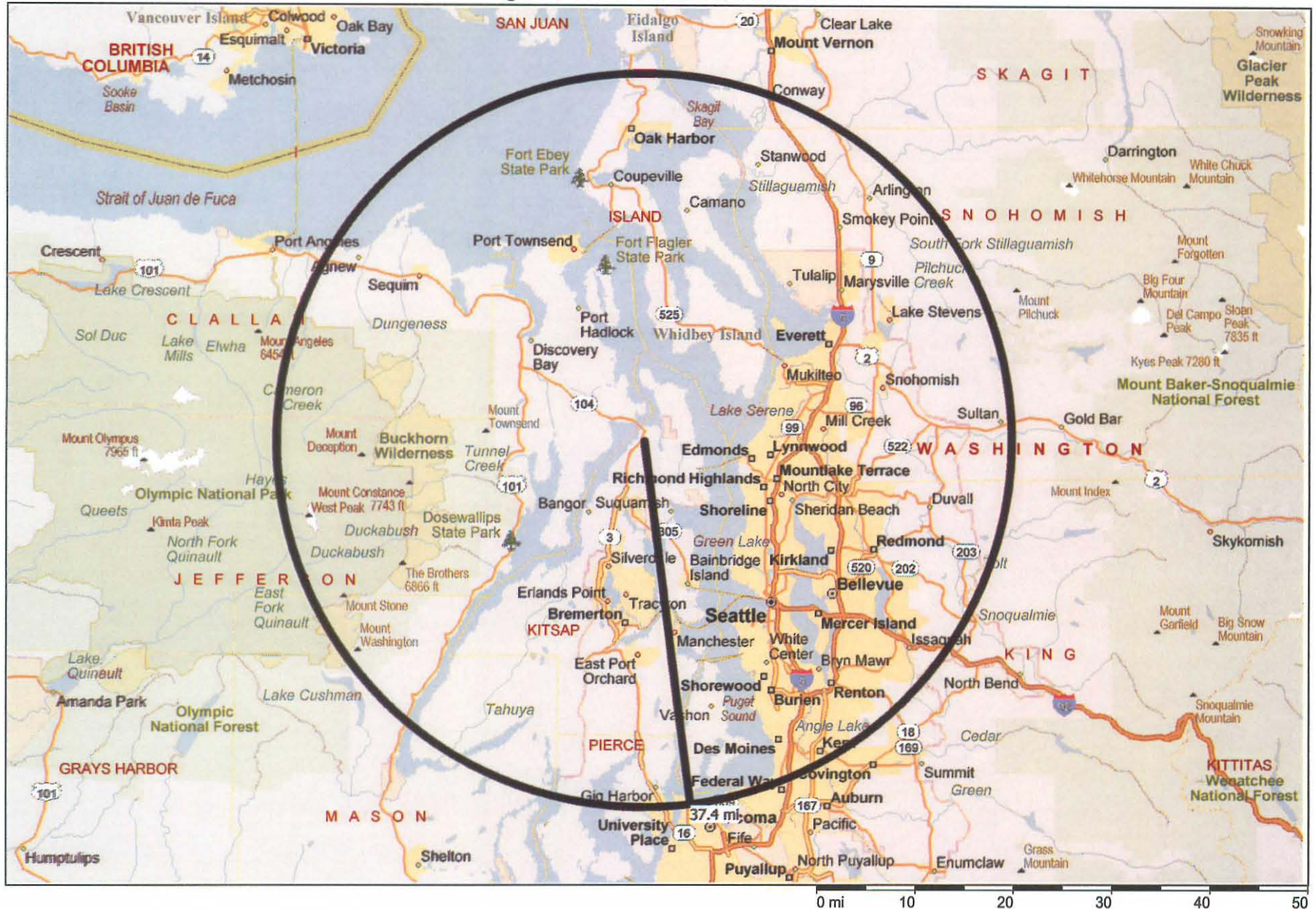
### Preliminary Earthquake Report

[Pacific Northwest Seismograph Network](#)





# Washington, United States, North America



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